

Anti-Hu CD38 Purified Monoclonal Antibody

Catalog Number: M00193-1

About CD38

CD38 (NAD⁺ glycohydrolase) is a type II transmembrane glycoprotein able to induce activation, proliferation and differentiation of mature lymphocytes and mediate apoptosis of myeloid and lymphoid progenitor cells. Another role of CD38 is provided by enzymatic activity of its extracellular part. CD38 acts as NAD⁺ glycohydrolase converting NAD⁺ into ADP-ribose, as ADP-ribosyl cyclase producing cADPR and as cADPR hydrolase, thus affecting levels of calcium-mobilizing metabolites. ADPR produced by CD38 serves as an important second messenger of neutrophil and dendritic cell migration.

Overview

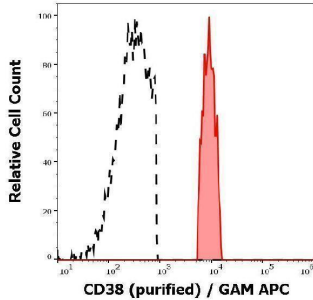
Product Name	Anti-Hu CD38 Purified Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD38 Purified Monoclonal Antibody (Catalog# M00193-1). Tested in Flow Cytometry, WB, IHC-P, IHC-F application(s). This antibody reacts with Human.
Application	Flow Cytometry, IHC-P, IHC-F, WB
Clonality	Monoclonal HIT2
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P28907

Technical Details

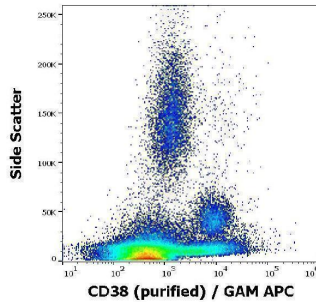
Immunogen	Human thymocytes in foetus. The mouse monoclonal antibody HIT2 reacts with an extracellular epitope of CD38, a 45 kDa type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells. Its binding is blocked by daratumumab.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Immunohistochemistry (paraffin sections): 10 ug/ml.

Western blotting: 2 ug/ml; positive control: RAJI human cell line, non-reducing conditions.
Flow cytometry: 1-4 µg/ml

Anti-Hu CD38 Purified Monoclonal Antibody (M00193-1) Images



Separation of human monocytes (red-filled) from CD38 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD38 (HIT2) purified antibody (concentration in sample 2 µg/ml, GAM APC).



Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD38 (HIT2) purified antibody (concentration in sample 2 µg/ml, GAM APC).

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